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Ammonia Emissions from Agriculture Activities: Sources, Dynamics and Fate

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Deadline for manuscript submissions:
closed (21 January 2022)

Message from the Guest Editors

Dear colleague,

In agricultural and livestock activities, reducing ammonia emissions is linked to the correct and efficient management of reactive nitrogen. Possible actions to reduce atmospheric ammonia emissions include proper management of reactive nitrogen within the production cycle, efficient feeding and housing systems, proper management (storage, treatment, and application) of manure, and efficient fertiliser management. The application of modelling techniques can help in this respect. Different modelling approaches can be adopted depending on the scale and focus of the analysis.

This Special Issue aims at collecting relevant contributions on the topic of ammonia emissions into the atmosphere from agricultural and livestock activities, and on the link with new particle formations. Authors are welcome to submit contributions concerning the analysis of sources, datasets, and the evolution of ammonia emissions in relation to air quality. Field and direct/inverse modelling studies concerning the analysis of emission sources and factors, as well as ammonia/aerosol relationship and chemistry studies, are also encouraged.

Guest editors

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Editor-in-Chief

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Message from the Editor-in-Chief

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

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